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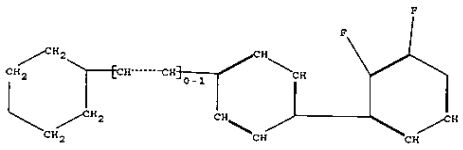

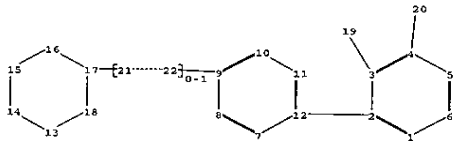

chain nodes :
19 20 21 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-12 3-19 4-20 9-22 17-21 21-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
13-14 13-18 14-15 15-16 16-17 17-18 21-22
exact bonds :
2-12 3-19 4-20 9-22 17-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS
22:CLASS

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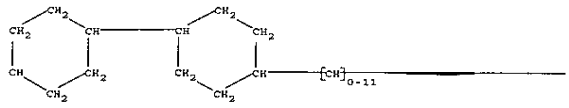

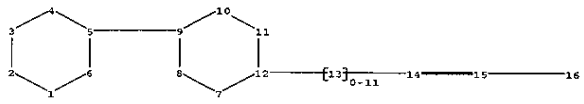

chain nodes :
13 14 15 16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-9 12-13 13-14 14-15 15-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact bonds :
5-9 12-13 13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS

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=> s l6
L7             2 L6

=> dis 1-2 all hitstr

L7   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   2003:114235  CAPLUS
DN   138:178319
ED   Entered STN:  14 Feb 2003
TI   Liquid crystal mixture suitable for active matrix liquid crystal display
     of ECB- or VA-type
IN   Reiffenrath, Volker; Klasen-Memmer, Melanie; Rillich, Malgorzata
PA   Merck Patent GmbH, Germany
SO   Ger. Offen., 26 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
IC   ICM  C09K019-12
     ICS  C07C043-225; C07C069-75; C07C069-76; C07C025-18; C07C013-28;
          C07D521-00; C09K019-34; C09K019-44; G09F009-35; G02F001-137
CC   74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
     Reprographic Processes)
     Section cross-reference(s): 75
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   DE 10229828        A1   20030213       DE 2002-10229828 20020703
     US 2003071244      A1   20030417       US 2002-206978   20020730
     JP 2003119466      A2   20030423       JP 2002-222518   20020731
PRAI DE 2001-10137319  A1   20010731
OS   MARPAT 138:178319
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB   The invention relates to a liq. crystal mixt. based on polar compds. with
     neg. dielec. anisotropy, wherein the mixt. comprises 10-45 % of I (R11 =
     C1-12-alkyl, C2-12-alkenyl; R12 = C2-12-alkenyl), 30-85 % of II (R21, R22
     = C1-12-alkyl, alkenyl; Z21 = -COO-, single bond; A21 =
     trans-1,4-cyclohexylene, 1,4-phenylene), and 5-35 % of III (R31, R32 =
     C1-12-alkyl, alkenyl; m = 1, 2; A = 1,4-trans-cyclohexylene,
     1,4-phenylene).  The liq. crystal mixt. is suitable for used in active
     matrix liq. crystal displays of ECB (elec. controlled birefringence) or VA
     (vertically aligned) type.
ST   liq crystal mixt active matrix display VA ECB
IT   Liquid crystal displays
        (liq. crystal mixt. suitable for active matrix liq. crystal display of
        ECB- or VA-type)
IT   Liquid crystals
        (nematic; liq. crystal mixt. suitable for active matrix liq. crystal
        display of ECB- or VA-type)
IT   84540-37-4   85600-56-2   92263-41-7   117713-14-1   123560-48-5
     124728-81-0   124729-02-8   129738-34-7   155041-85-3   174350-06-2
     189750-98-9   208709-55-1   263017-37-4   279246-65-0   323178-01-4
     478385-88-5 497172-21-1 497172-22-2
     497172-23-3
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
     (Uses)
        (liq. crystal mixt. suitable for active matrix liq. crystal display of
        ECB- or VA-type)
IT   497172-21-1 497172-22-2 497172-23-3
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RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(liq. crystal mixt. suitable for active matrix liq. crystal display of ECB- or VA-type)

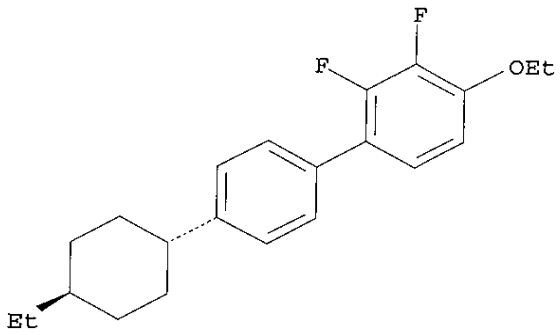
RN 497172-21-1 CAPLUS

CN 1,1'-Biphenyl, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-, mixt. with 4-(3-butenyl)-4'-methyl-1,1'-biphenyl, 1-butoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 1-butoxy-2,3-difluoro-4-(trans-4-propylcyclohexyl)benzene, 1-[(trans,trans)-4'-ethenyl[1,1'-bicyclohexyl]-4-yl]-4-methylbenzene, 1-ethoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-1,1'-biphenyl, 4-ethyl-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl and (trans,trans)-4-(1E)-1-propenyl-4'-propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

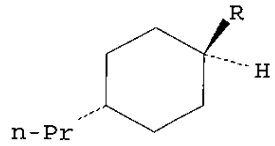
Relative stereochemistry.

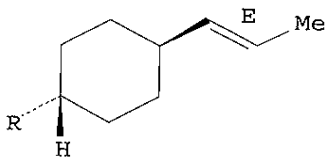


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

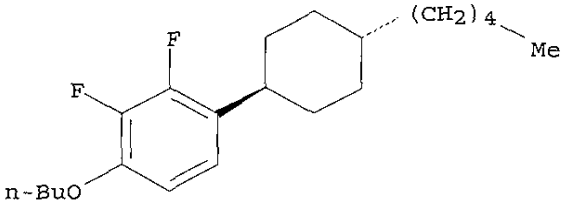




CM 3

CRN 263017-37-4
CMF C21 H32 F2 O

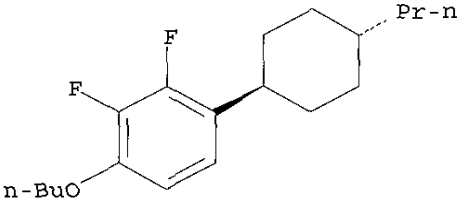
Relative stereochemistry.



CM 4

CRN 208709-55-1
CMF C19 H28 F2 O

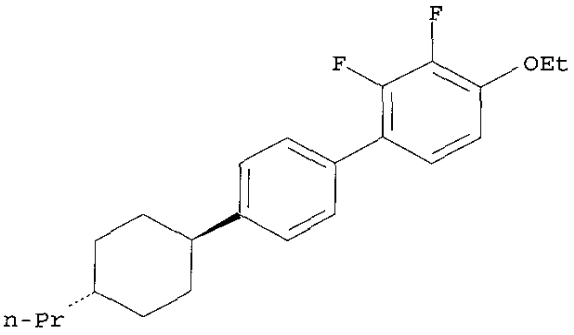
Relative stereochemistry.



CM 5

CRN 189750-98-9
CMF C23 H28 F2 O

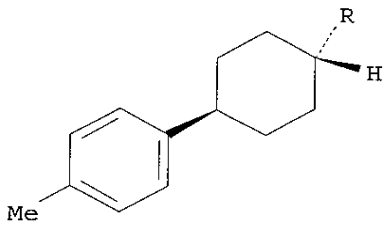
Relative stereochemistry.

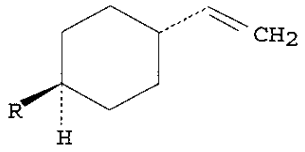


CM 6

CRN 155041-85-3
CMF C21 H30

Relative stereochemistry.

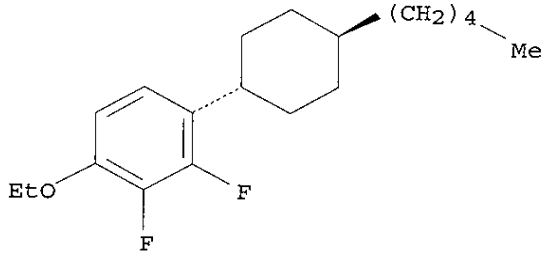




CM 7

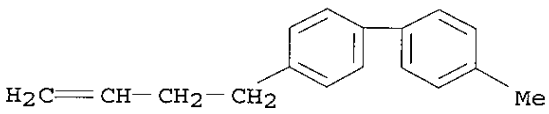
CRN 124729-02-8
CMF C19 H28 F2 O

Relative stereochemistry.



CM 8

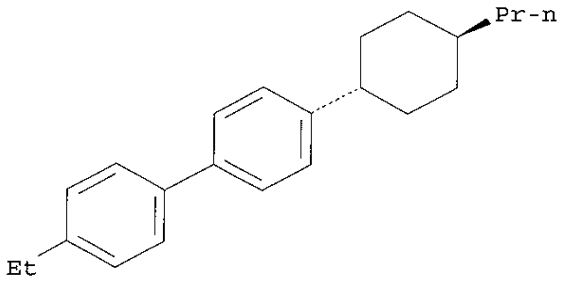
CRN 117713-14-1
CMF C17 H18



CM 9

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.

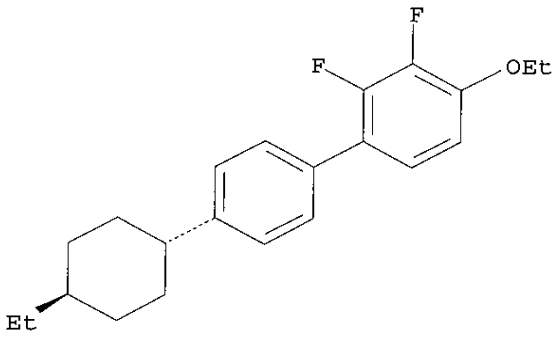


RN 497172-22-2 CAPLUS
CN 1,1'-Biphenyl, 4-ethoxy-2,3-difluoro-4'-pentyl-, mixt. with 4-(3-butenyl)-4'-methyl-1,1'-biphenyl, 1-[(trans,trans)-4'-ethenyl[1,1'-bicyclohexyl]-4-yl]-4-methylbenzene, (trans,trans)-4-ethenyl-4'-pentyl-1,1'-bicyclohexyl, 4-ethoxy-2,3-difluoro-4'-propyl-1,1'-biphenyl, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-1,1'-biphenyl, 4-ethyl-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl and (trans,trans)-4-(1E)-1-propenyl-4'-propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

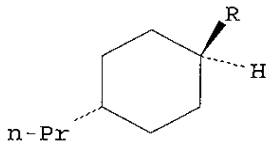
Relative stereochemistry.

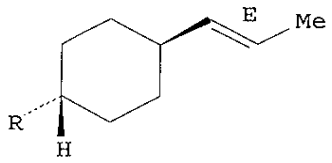


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

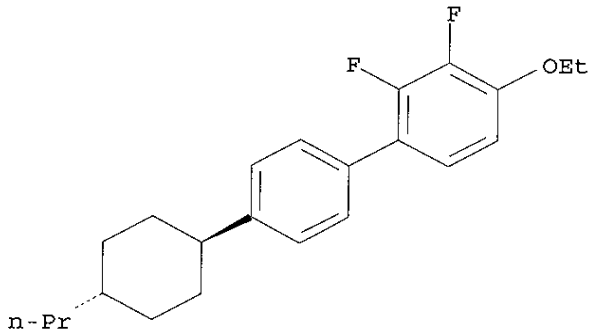




CM 3

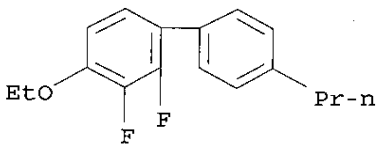
CRN 189750-98-9
CMF C23 H28 F2 O

Relative stereochemistry.



CM 4

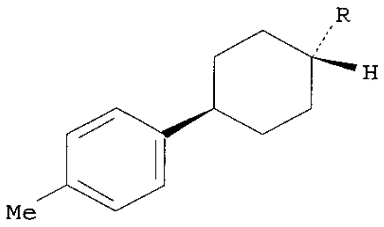
CRN 157248-24-3
CMF C17 H18 F2 O

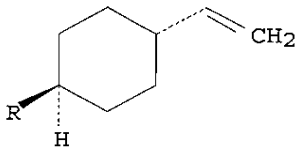


CM 5

CRN 155041-85-3
CMF C21 H30

Relative stereochemistry.

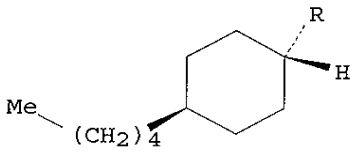


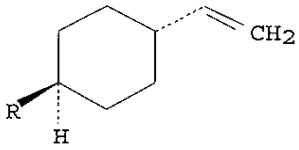


CM 6

CRN 129738-34-7
CMF C19 H34

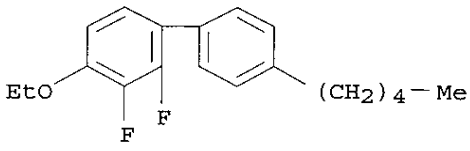
Relative stereochemistry.





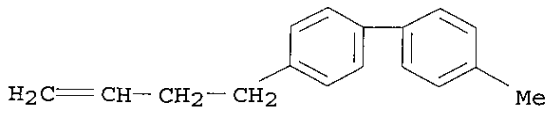
CM 7

CRN 122412-08-2
CMF C19 H22 F2 O



CM 8

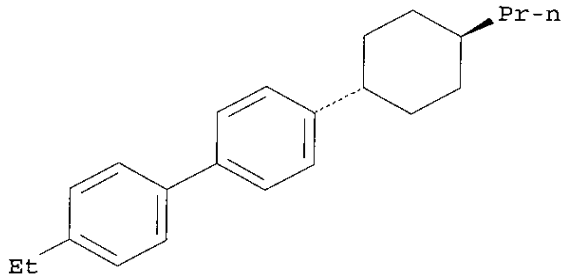
CRN 117713-14-1
CMF C17 H18



CM 9

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.

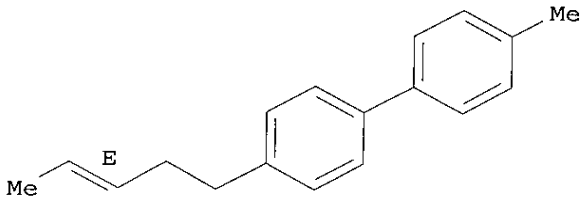


RN 497172-23-3 CAPLUS
CN 1,1'-Biphenyl, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-, mixt. with 1-butoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 1-butoxy-2,3-difluoro-4-(trans-4-propylcyclohexyl)benzene, 1-[(trans,trans)-4'-ethenyl[1,1'-bicyclohexyl]-4-yl]-4-methylbenzene, 1-ethoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-1,1'-biphenyl, 4-ethyl-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl, 4-methyl-4'-(3E)-3-pentenyl-1,1'-biphenyl and (trans,trans)-4-(1E)-1-propenyl-4'-propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 478385-88-5
CMF C18 H20

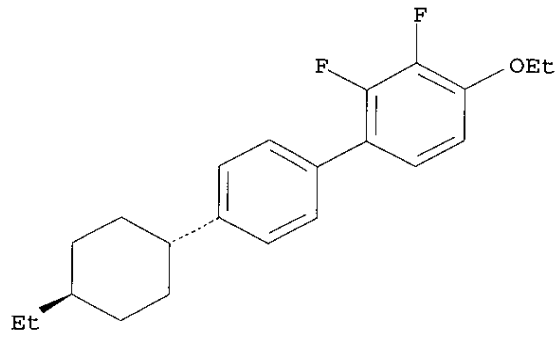
Double bond geometry as shown.



CM 2

CRN 323178-01-4
CMF C22 H26 F2 O

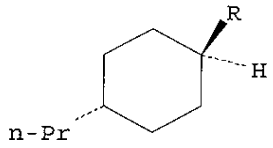
Relative stereochemistry.

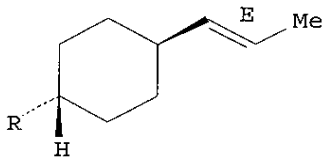


CM 3

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

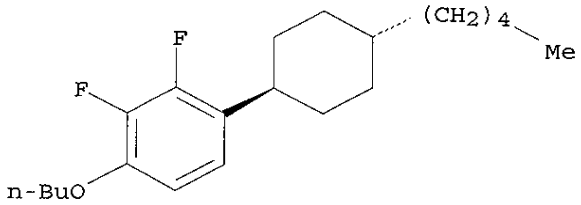




CM 4

CRN 263017-37-4
CMF C21 H32 F2 O

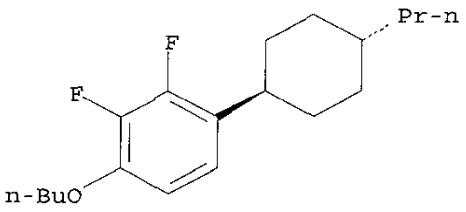
Relative stereochemistry.



CM 5

CRN 208709-55-1
CMF C19 H28 F2 O

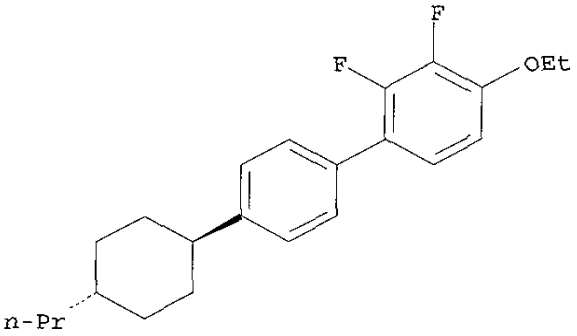
Relative stereochemistry.



CM 6

CRN 189750-98-9
CMF C23 H28 F2 O

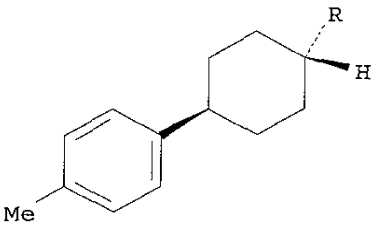
Relative stereochemistry.

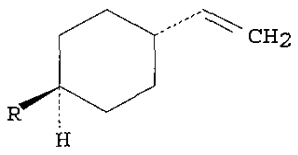


CM 7

CRN 155041-85-3
CMF C21 H30

Relative stereochemistry.

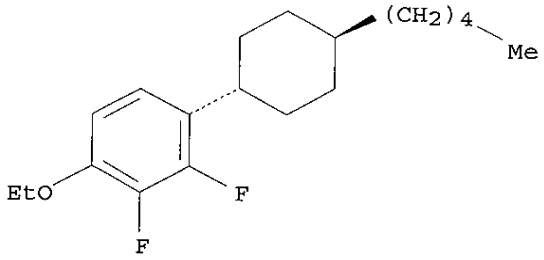




CM 8

CRN 124729-02-8
CMF C19 H28 F2 O

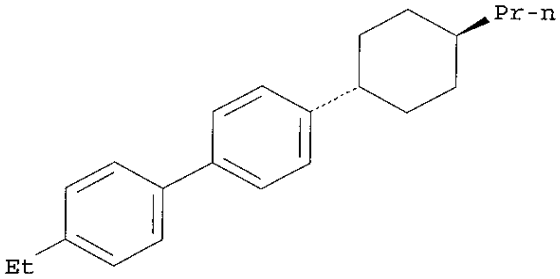
Relative stereochemistry.



CM 9

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.

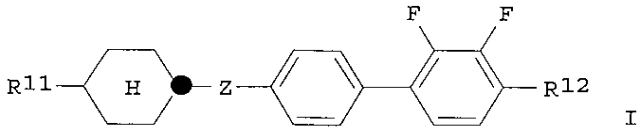


L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:760068 CAPLUS
DN 135:296297
ED Entered STN: 19 Oct 2001
TI Liquid crystal mixture with negative dielectric anisotropy for liquid crystal display
IN Klasen, Melanie; Weller, Clarissa; Tarumi, Kazuaki; Bremer, Matthias
PA Merck Patent G.m.b.H., Germany
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA German
IC ICM C09K019-30
ICS C09K019-44
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 75
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1146104	A2	20011017	EP 2001-107879	20010410
	EP 1146104	A3	20020130		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO
DE 10112955 A1 20011122 DE 2001-10112955 20010317
US 2002014613 A1 20020207 US 2001-833743 20010413
JP 2001354967 A2 20011225 JP 2001-116758 20010416
PRAI DE 2000-10018899 A 20000414
OS MARPAT 135:296297
GI



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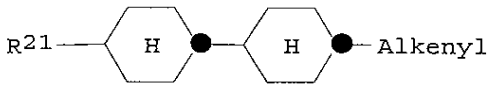


II

AB The invention relates to a liq. crystal mixt. based on a mixt. of polar compds. with neg. dielec. anisotropy, wherein the liq. crystal mixt. contains at least one compd. represented by I (R11, R12 = C.ltoreq.15-alkyl, alkenyl; Z = -C2H4-, -CH:CH-, -CF2O-, -OCCF2-, single bond) and at least one compd. represented by II (R21 = C.ltoreq.15-alkyl, alkenyl; Alkenyl = linear C2-6-alkenyl). The liq. crystal mixt. is esp. suitable for ECB (elec. controlled birefringence) and IPS (in-plane switching) type liq. crystal displays.

ST nematic liq crystal mixt neg dielec anisotropy; liq crystal display ECB IPS liq crystal mixt

IT Liquid crystal displays
(liq. crystal mixt. with neg. dielec. anisotropy for liq. crystal display)

IT Liquid crystals
(nematic; liq. crystal mixt. with neg. dielec. anisotropy for liq. crystal display)

IT 80944-44-1 81936-32-5 84540-37-4 87941-72-8 92263-41-7
123560-48-5 123560-54-3 124729-02-8 124770-58-7 129738-34-7
129738-42-7 154346-21-1 155041-85-3 174350-06-2 189750-98-9
197012-45-6 208709-55-1 263017-37-4 279246-65-0 321395-36-2
323178-01-4 323178-05-8 362053-47-2 362053-60-9 362053-68-7
364765-41-3 364765-42-4 364765-43-5
364765-44-6 **364765-48-0** 364765-49-1 364765-50-4
RL: TEM (Technical or engineered material use); USES (Uses)
(liq. crystal mixt. with neg. dielec. anisotropy for liq. crystal display)

IT **364765-41-3 364765-42-4 364765-43-5**
364765-48-0
RL: TEM (Technical or engineered material use); USES (Uses)
(liq. crystal mixt. with neg. dielec. anisotropy for liq. crystal display)

RN 364765-41-3 CAPLUS

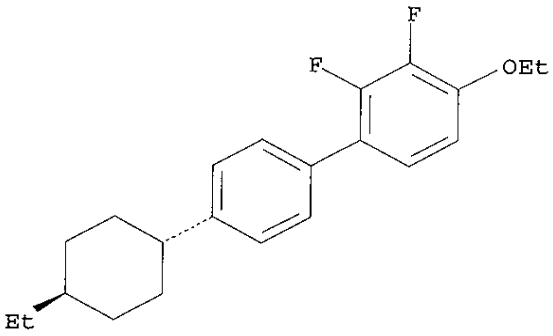
CN 1,1'-Biphenyl, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-, mixt. with 1-butoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 1-butoxy-2,3-difluoro-4-(trans-4-propylcyclohexyl)benzene, 1-[(trans,trans)-4'-ethenyl[1,1'-bicyclohexyl]-4-yl]-4-methylbenzene, (trans,trans)-4-ethenyl-4'-pentyl-1,1'-bicyclohexyl, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-1,1'-biphenyl, 4-ethyl-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl and (trans,trans)-4-(1E)-1-propenyl-4'-

propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

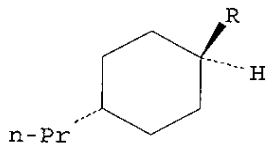
Relative stereochemistry.

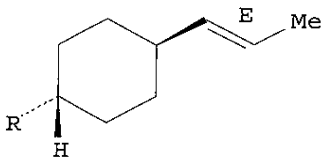


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

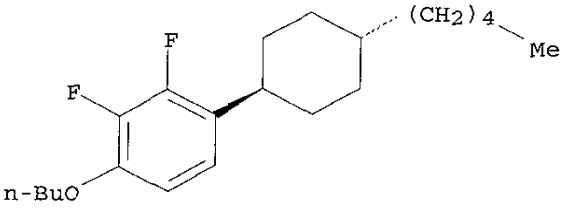




CM 3

CRN 263017-37-4
CMF C21 H32 F2 O

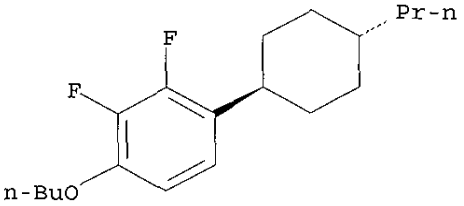
Relative stereochemistry.



CM 4

CRN 208709-55-1
CMF C19 H28 F2 O

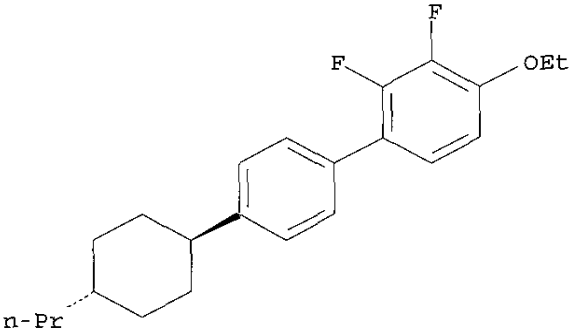
Relative stereochemistry.



CM 5

CRN 189750-98-9
CMF C23 H28 F2 O

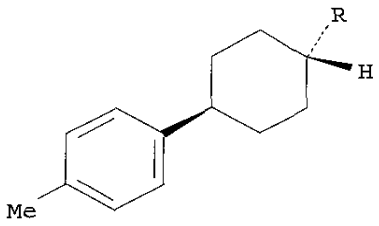
Relative stereochemistry.

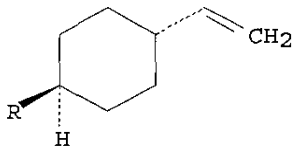


CM 6

CRN 155041-85-3
CMF C21 H30

Relative stereochemistry.

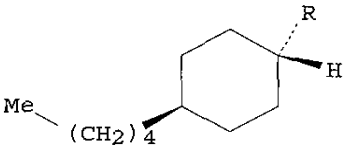


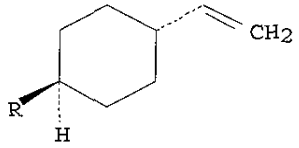


CM 7

CRN 129738-34-7
CMF C19 H34

Relative stereochemistry.

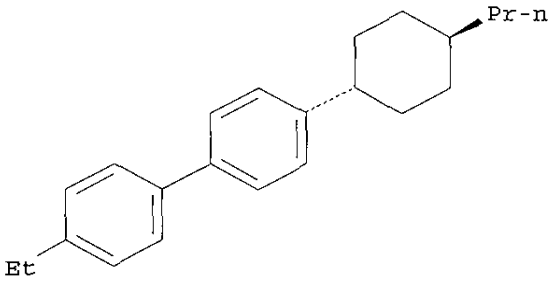




CM 8

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.

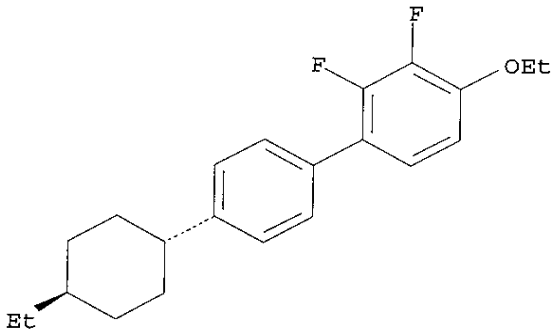


RN 364765-42-4 CAPLUS
CN 1,1'-Biphenyl, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-, mixt. with 1-butoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 1-butoxy-2,3-difluoro-4-(trans-4-propylcyclohexyl)benzene, 1-ethoxy-2,3-difluoro-4-[(trans,trans)-4'-propyl[1,1'-bicyclohexyl]-4-yl]benzene, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl, (trans,trans)-4-ethenyl-4'-pentyl-1,1'-bicyclohexyl, 4-ethyl-4'-(trans-4-propylcyclohexyl)-1,1'-biphenyl, (trans,trans)-4-pentyl-4'-propyl-1,1'-bicyclohexyl and (trans,trans)-4-(1E)-1-propenyl-4'-propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

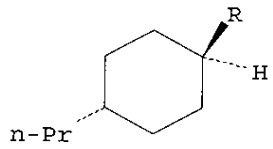
Relative stereochemistry.

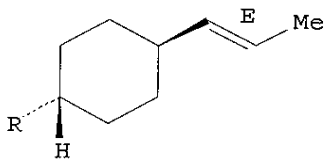


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

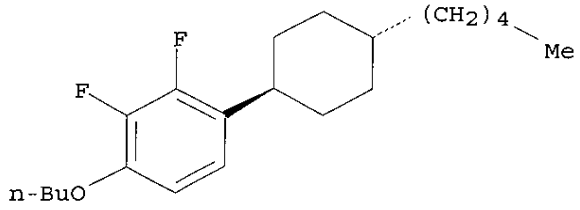




CM 3

CRN 263017-37-4
CMF C21 H32 F2 O

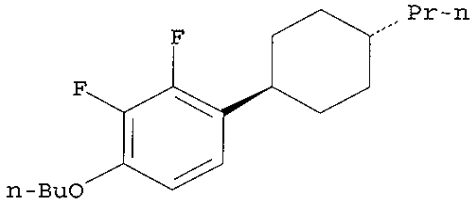
Relative stereochemistry.



CM 4

CRN 208709-55-1
CMF C19 H28 F2 O

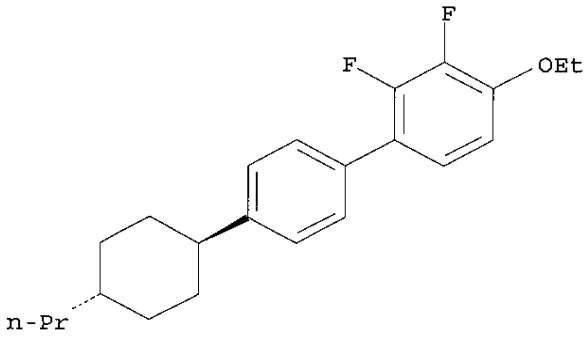
Relative stereochemistry.



CM 5

CRN 189750-98-9
CMF C23 H28 F2 O

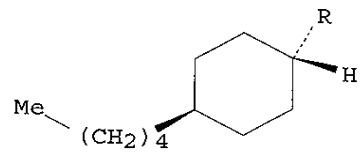
Relative stereochemistry.

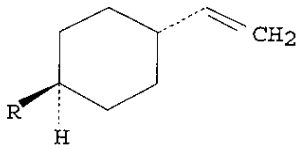


CM 6

CRN 129738-34-7
CMF C19 H34

Relative stereochemistry.

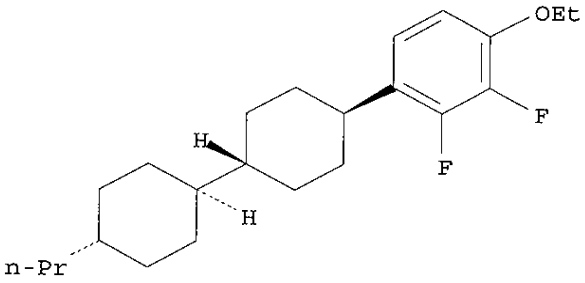




CM 7

CRN 123560-48-5
CMF C23 H34 F2 O

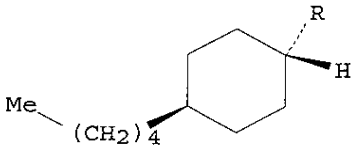
Relative stereochemistry.

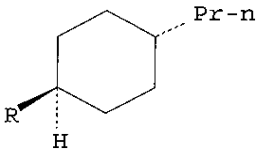


CM 8

CRN 92263-41-7
CMF C20 H38

Relative stereochemistry.

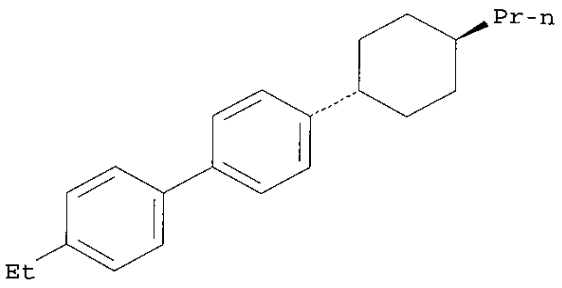




CM 9

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.



RN 364765-43-5 CAPLUS
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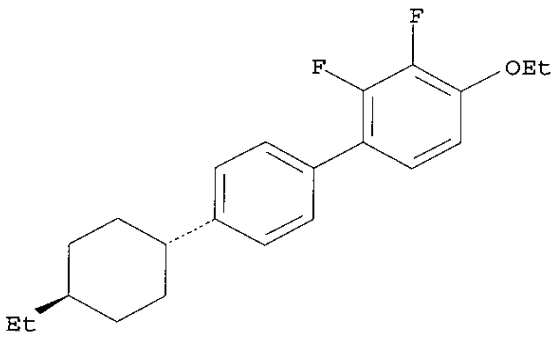
CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

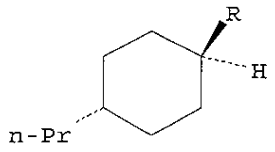
Relative stereochemistry.

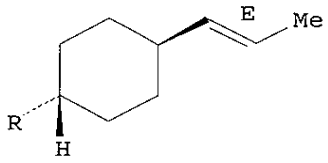


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

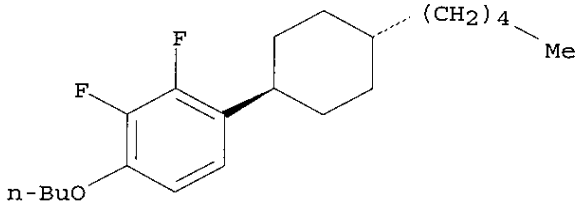




CM 3

CRN 263017-37-4
CMF C21 H32 F2 O

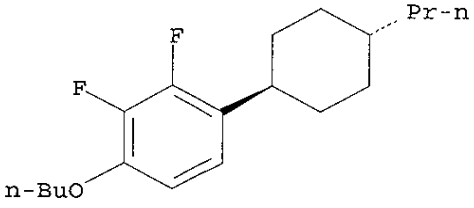
Relative stereochemistry.



CM 4

CRN 208709-55-1
CMF C19 H28 F2 O

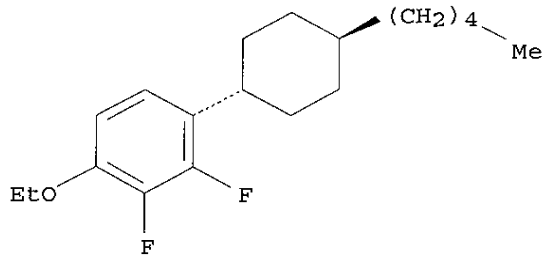
Relative stereochemistry.



CM 5

CRN 124729-02-8
CMF C19 H28 F2 O

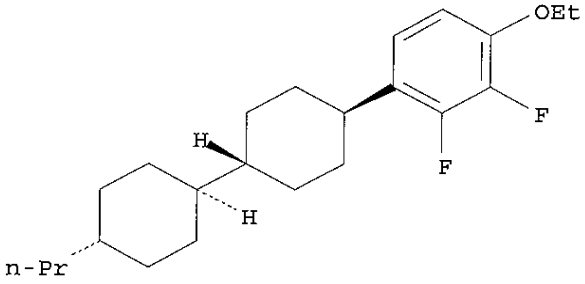
Relative stereochemistry.



CM 6

CRN 123560-48-5
CMF C23 H34 F2 O

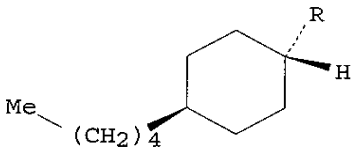
Relative stereochemistry.

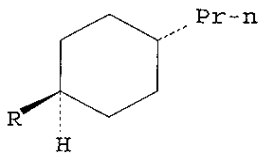


CM 7

CRN 92263-41-7
CMF C20 H38

Relative stereochemistry.

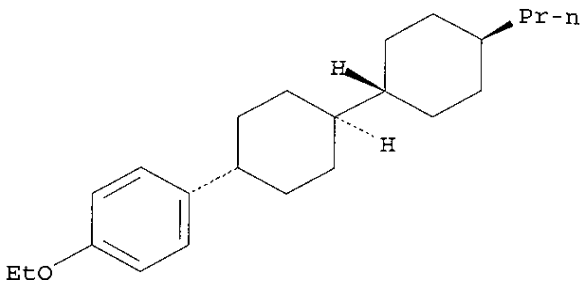




CM 8

CRN 84656-78-0
CMF C23 H36 O

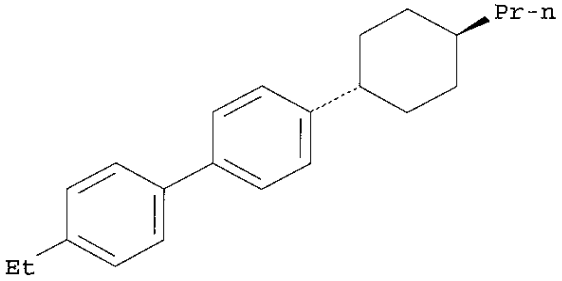
Relative stereochemistry.



CM 9

CRN 84540-37-4
CMF C23 H30

Relative stereochemistry.

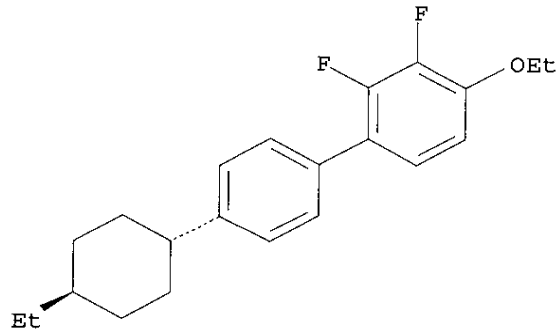


RN 364765-48-0 CAPLUS
CN 1,1'-Biphenyl, 4-ethoxy-2,3-difluoro-4'-(trans-4-propylcyclohexyl)-, mixt. with 1-[(trans,trans)-4'-(3-butenyl)[1,1'-bicyclohexyl]-4-yl]-4-methylbenzene, 1-butoxy-2,3-difluoro-4-(trans-4-pentylcyclohexyl)benzene, 1-butoxy-2,3-difluoro-4-(trans-4-propylcyclohexyl)benzene, (trans,trans)-4-ethenyl-4'-pentyl-1,1'-bicyclohexyl, 1-ethoxy-2,3-difluoro-4-[(trans,trans)-4'-propyl[1,1'-bicyclohexyl]-4-yl]benzene, 4-ethoxy-4'-(trans-4-ethylcyclohexyl)-2,3-difluoro-1,1'-biphenyl, (trans,trans)-4-pentyl-4'-propyl-1,1'-bicyclohexyl and (trans,trans)-4-(1E)-1-propenyl-4'-propyl-1,1'-bicyclohexyl (9CI) (CA INDEX NAME)

CM 1

CRN 323178-01-4
CMF C22 H26 F2 O

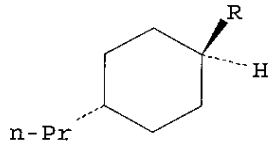
Relative stereochemistry.

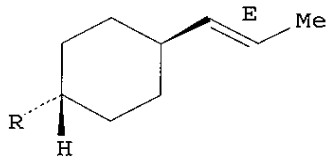


CM 2

CRN 279246-65-0
CMF C18 H32

Relative stereochemistry.
Double bond geometry as shown.

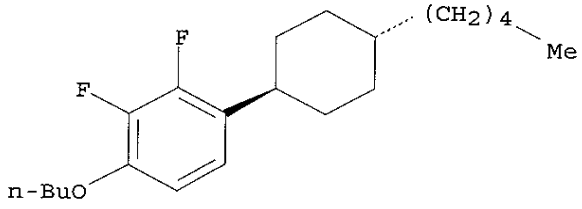




CM 3

CRN 263017-37-4
CMF C21 H32 F2 O

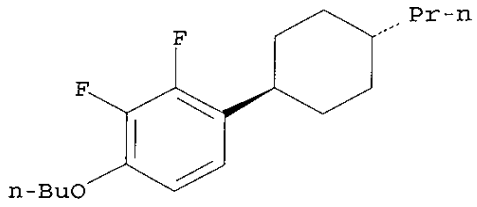
Relative stereochemistry.



CM 4

CRN 208709-55-1
CMF C19 H28 F2 O

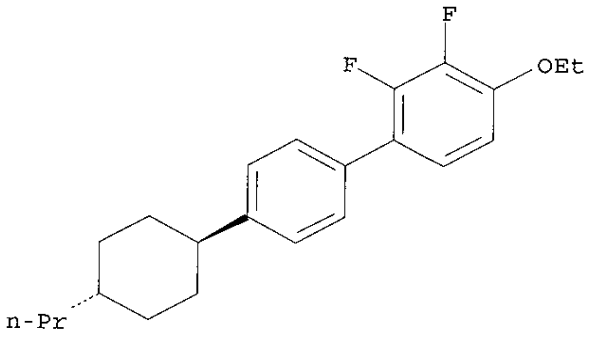
Relative stereochemistry.



CM 5

CRN 189750-98-9
CMF C23 H28 F2 O

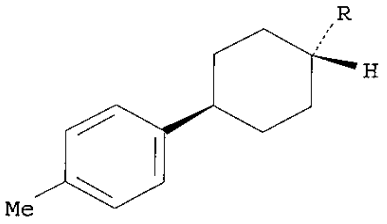
Relative stereochemistry.

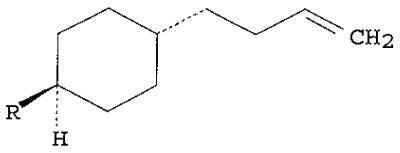


CM 6

CRN 129738-42-7
CMF C23 H34

Relative stereochemistry.

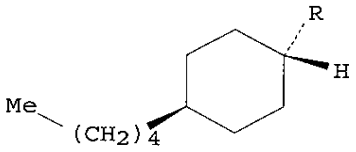


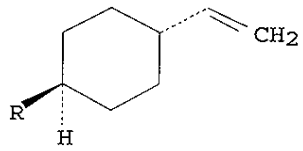


CM 7

CRN 129738-34-7
CMF C19 H34

Relative stereochemistry.

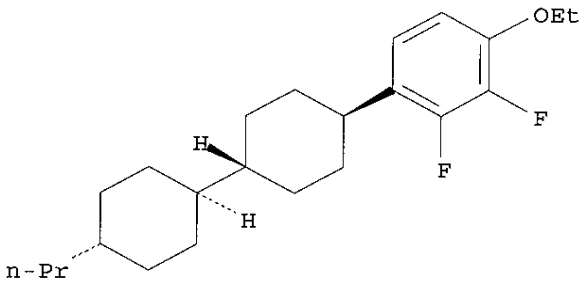




CM 8

CRN 123560-48-5
CMF C23 H34 F2 O

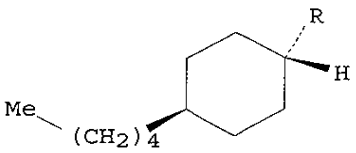
Relative stereochemistry.

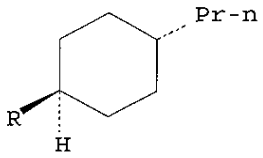


CM 9

CRN 92263-41-7
CMF C20 H38

Relative stereochemistry.


R
H
Me
(CH2)4


Pr-n
R
H

FILE 'REGISTRY' ENTERED AT 19:22:18 ON 15 DEC 2003

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 0 S L1 AND L2

L4 17 S L1

L5 6 S L2

L6 7 S L1 AND L2 FUL

FILE 'CAPLUS' ENTERED AT 19:23:35 ON 15 DEC 2003

L7 2 S L6